

# FIG.1A

Amino Acid Sequence of the Composite HCV<sub>HC-J1/CDC/CHI</sub>

|     |     |     |     |     | 5   |     |     |     |     |     | 10  |     |     |     |     |     | 15 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| 1   | Met | Ser | Thr | Ile | Pro | Lys | Pro | Gln | Arg | Lys | Thr | Lys | Arg | Asn | Thr | Asn |    |
| 17  | Arg | Arg | Pro | Gln | Asp | Val | Lys | Phe | Pro | Gly | Gly | Gly | Gln | Ile | Val | Gly |    |
| 33  | Gly | Val | Tyr | Leu | Leu | Pro | Arg | Arg | Gly | Pro | Arg | Leu | Gly | Val | Arg | Ala |    |
| 49  | Thr | Arg | Lys | Thr | Ser | Glu | Arg | Ser | Gln | Pro | Arg | Gly | Arg | Arg | Gln | Pro |    |
| 65  | Ile | Pro | Lys | Val | Arg | Arg | Pro | Glu | Gly | Arg | Thr | Trp | Ala | Gln | Pro | Gly |    |
| 81  | Tyr | Pro | Trp | Pro | Leu | Tyr | Gly | Asn | Glu | Gly | Cys | Gly | Trp | Ala | Gly | Trp |    |
| 97  | Leu | Leu | Ser | Pro | Arg | Gly | Ser | Arg | Pro | Ser | Trp | Gly | Pro | Thr | Asp | Pro |    |
| 113 | Arg | Arg | Arg | Ser | Arg | Asn | Leu | Gly | Lys | Val | Ile | Asp | Thr | Leu | Thr | Cys |    |
| 129 | Gly | Phe | Ala | Asp | Leu | Met | Gly | Tyr | Ile | Pro | Leu | Val | Gly | Ala | Pro | Leu |    |
| 145 | Gly | Gly | Ala | Ala | Arg | Ala | Leu | Ala | His | Gly | Val | Arg | Val | Leu | Glu | Asp |    |
| 161 | Gly | Val | Asn | Tyr | Ala | Thr | Gly | Asn | Leu | Pro | Gly | Cys | Ser | Phe | Ser | Ile |    |
| 177 | Phe | Leu | Leu | Ala | Leu | Leu | Ser | Cys | Leu | Thr | Val | Pro | Ala | Ser | Ala | Tyr |    |
| 193 | Gln | Val | Arg | Asn | Ser | Thr | Gly | Leu | Tyr | His | Val | Thr | Asn | Asp | Cys | Pro |    |
| 209 | Asn | Ser | Ser | Ile | Val | Tyr | Glu | Ala | His | Asp | Ala | Ile | Leu | His | Thr | Pro |    |
| 225 | Gly | Cys | Val | Pro | Cys | Val | Arg | Glu | Gly | Asn | Val | Ser | Arg | Cys | Trp | Val |    |
| 241 | Ala | Met | Thr | Pro | Thr | Val | Ala | Thr | Arg | Asp | Gly | Lys | Leu | Pro | Ala | Thr |    |
| 257 | Gln | Leu | Arg | Arg | His | Ile | Asp | Leu | Leu | Val | Gly | Ser | Ala | Thr | Leu | Cys |    |
| 273 | Ser | Ala | Leu | Tyr | Val | Gly | Asp | Leu | Cys | Gly | Ser | Val | Phe | Leu | Ile | Gly |    |
| 289 | Gln | Leu | Phe | Thr | Phe | Ser | Pro | Arg | Arg | His | Trp | Thr | Thr | Gln | Gly | Cys |    |
| 305 | Asn | Cys | Ser | Ile | Tyr | Pro | Gly | His | Ile | Thr | Gly | His | Arg | Met | Ala | Trp |    |
| 321 | Asp | Met | Met | Met | Asn | Trp | Ser | Pro | Thr | Ala | Ala | Leu | Val | Met | Ala | Gln |    |
| 337 | Leu | Leu | Arg | Ile | Pro | Gln | Ala | Ile | Leu | Asp | Met | Ile | Ala | Gly | Ala | His |    |
| 353 | Trp | Gly | Val | Leu | Ala | Gly | Ile | Ala | Tyr | Phe | Ser | Met | Val | Gly | Asn | Trp |    |
| 369 | Ala | Lys | Val | Leu | Val | Val | Leu | Leu | Leu | Phe | Ala | Gly | Val | Asp | Ala | Glu |    |
| 385 | Thr | Ile | Val | Ser | Gly | Gly | Gln | Ala | Ala | Arg | Ala | Met | Ser | Gly | Leu | Val |    |
| 401 | Ser | Leu | Phe | Thr | Pro | Gly | Ala | Lys | Gln | Asn | Ile | Gln | Leu | Ile | Asn | Thr |    |
| 417 | Asn | Gly | Ser | Trp | His | Ile | Asn | Ser | Thr | Ala | Leu | Asn | Cys | Asn | Glu | Ser |    |
| 433 | Leu | Asn | Thr | Gly | Trp | Leu | Ala | Gly | Leu | Ile | Tyr | Gln | His | Lys | Phe | Asn |    |
| 449 | Ser | Ser | Gly | Cys | Pro | Glu | Arg | Leu | Ala | Ser | Cys | Arg | Pro | Leu | Thr | Asp |    |
| 465 | Phe | Asp | Gln | Gly | Trp | Gly | Pro | Ile | Ser | Tyr | Ala | Asn | Gly | Ser | Gly | Pro |    |
| 481 | Asp | Gln | Arg | Pro | Tyr | Cys | Trp | His | Tyr | Pro | Pro | Lys | Pro | Cys | Gly | Ile |    |
| 497 | Val | Pro | Ala | Lys | Ser | Val | Cys | Gly | Pro | Val | Tyr | Cys | Phe | Thr | Pro | Ser |    |
| 513 | Pro | Val | Val | Val | Gly | Thr | Thr | Asp | Arg | Ser | Gly | Ala | Pro | Thr | Tyr | Ser |    |
| 529 | Trp | Gly | Glu | Asn | Asp | Thr | Asp | Val | Phe | Val | Leu | Asn | Asn | Thr | Arg | Pro |    |
| 545 | Pro | Leu | Gly | Asn | Trp | Phe | Gly | Cys | Thr | Trp | Met | Asn | Ser | Thr | Gly | Phe |    |
| 561 | Thr | Lys | Val | Cys | Gly | Ala | Pro | Pro | Cys | Val | Ile | Gly | Gly | Ala | Gly | Asn |    |
| 577 | Asn | Thr | Leu | His | Cys | Pro | Thr | Asp | Cys | Phe | Arg | Lys | His | Pro | Asp | Ala |    |
| 593 | Thr | Tyr | Ser | Arg | Cys | Gly | Ser | Gly | Pro | Trp | Ile | Thr | Pro | Arg | Cys | Leu |    |
| 609 | Val | Asp | Tyr | Pro | Tyr | Arg | Leu | Trp | His | Tyr | Pro | Cys | Thr | Ile | Asn | Tyr |    |
| 625 | Thr | Ile | Phe | Lys | Ile | Arg | Met | Tyr | Val | Gly | Gly | Val | Glu | His | Arg | Leu |    |
| 641 | Glu | Ala | Ala | Cys | Asn | Trp | Thr | Arg | Gly | Glu | Arg | Cys | Asp | Leu | Glu | Asp |    |
| 657 | Arg | Asp | Arg | Ser | Glu | Leu | Ser | Pro | Leu | Leu | Leu | Thr | Thr | Thr | Gln | Trp |    |
| 673 | Gln | Val | Leu | Pro | Cys | Ser | Phe | Thr | Thr | Leu | Pro | Ala | Leu | Ser | Thr | Gly |    |
| 689 | Leu | Ile | His | Leu | His | Gln | Asn | Ile | Val | Asp | Val | Gln | Tyr | Leu | Tyr | Gly |    |
| 705 | Val | Gly | Ser | Ser | Ile | Ala | Ser | Trp | Ala | Ile | Lys | Trp | Glu | Tyr | Val | Val |    |

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FIG.1B

|      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 721  | Leu | Leu | Phe | Leu | Leu | Leu | Ala | Asp | Ala | Arg | Val | Cys | Ser | Cys | Leu | Trp |
| 737  | Met | Met | Leu | Leu | Ile | Ser | Gln | Ala | Glu | Ala | Ala | Leu | Glu | Asn | Leu | Val |
| 753  | Ile | Leu | Asn | Ala | Ala | Ser | Leu | Ala | Gly | Thr | His | Gly | Leu | Val | Ser | Phe |
| 769  | Leu | Val | Phe | Phe | Cys | Phe | Ala | Trp | Tyr | Leu | Lys | Gly | Lys | Trp | Val | Pro |
| 785  | Gly | Ala | Val | Tyr | Thr | Phe | Tyr | Gly | Met | Trp | Pro | Leu | Leu | Leu | Leu | Leu |
| 801  | Leu | Ala | Leu | Pro | Gln | Arg | Ala | Tyr | Ala | Leu | Asp | Thr | Glu | Val | Ala | Ala |
| 817  | Ser | Cys | Gly | Gly | Val | Val | Leu | Val | Gly | Leu | Met | Ala | Leu | Thr | Leu | Ser |
| 833  | Pro | Tyr | Tyr | Lys | Arg | Tyr | Ile | Ser | Trp | Cys | Leu | Trp | Trp | Leu | Gln | Tyr |
| 849  | Phe | Leu | Thr | Arg | Val | Glu | Ala | Gln | Leu | His | Val | Trp | Ile | Pro | Pro | Leu |
| 865  | Asn | Val | Arg | Gly | Gly | Arg | Asp | Ala | Val | Ile | Leu | Leu | Met | Cys | Ala | Val |
| 881  | His | Pro | Thr | Leu | Val | Phe | Asp | Ile | Thr | Lys | Leu | Leu | Leu | Ala | Val | Phe |
| 897  | Gly | Pro | Leu | Trp | Ile | Leu | Asp | Ala | Ser | Leu | Leu | Lys | Val | Pro | Tyr | Phe |
| 913  | Val | Arg | Val | Gln | Gly | Leu | Leu | Arg | Phe | Cys | Ala | Leu | Ala | Arg | Lys | Met |
| 929  | Ile | Gly | Gly | His | Tyr | Val | Gln | Met | Val | Ile | Ile | Lys | Leu | Gly | Ala | Leu |
| 945  | Thr | Gly | Thr | Tyr | Val | Tyr | Asn | His | Leu | Thr | Pro | Leu | Arg | Asp | Trp | Ala |
| 961  | His | Asn | Gly | Leu | Arg | Asp | Leu | Ala | Val | Ala | Val | Glu | Pro | Val | Val | Phe |
| 977  | Ser | Gln | Met | Glu | Thr | Lys | Leu | Ile | Thr | Trp | Gly | Ala | Asp | Thr | Ala | Ala |
| 993  | Cys | Gly | Asp | Ile | Ile | Asn | Gly | Leu | Pro | Val | Ser | Ala | Arg | Arg | Gly | Arg |
| 1009 | Glu | Ile | Leu | Leu | Gly | Pro | Ala | Asp | Gly | Met | Val | Ser | Cys | Gly | Trp | Arg |
| 1025 | Leu | Leu | Ala | Pro | Ile | Thr | Ala | Tyr | Ala | Gln | Gln | Thr | Arg | Gly | Leu | Leu |
| 1041 | Gly | Cys | Ile | Ile | Thr | Ser | Leu | Thr | Gly | Arg | Asp | Lys | Asn | Gln | Val | Glu |
| 1057 | Gly | Glu | Val | Gln | Ile | Val | Ser | Thr | Ala | Ala | Gln | Thr | Phe | Leu | Ala | Thr |
| 1073 | Cys | Ile | Asn | Gly | Val | Cys | Trp | Thr | Val | Tyr | His | Gly | Ala | Gly | Thr | Arg |
| 1089 | Thr | Ile | Ala | Ser | Pro | Lys | Gly | Pro | Val | Ile | Gln | Met | Tyr | Thr | Asn | Val |
| 1105 | Asp | Gln | Asp | Leu | Val | Gly | Trp | Pro | Ala | Pro | Gln | Gly | Ser | Arg | Ser | Leu |
| 1121 | Thr | Pro | Cys | Thr | Cys | Gly | Ser | Ser | Asp | Leu | Tyr | Leu | Val | Thr | Arg | His |
| 1137 | Ala | Asp | Val | Ile | Pro | Val | Arg | Arg | Arg | Gly | Asp | Ser | Arg | Gly | Ser | Leu |
| 1153 | Leu | Ser | Pro | Arg | Pro | Ile | Ser | Tyr | Leu | Lys | Gly | Ser | Ser | Gly | Gly | Pro |
| 1169 | Leu | Leu | Cys | Pro | Ala | Gly | His | Ala | Val | Gly | Ile | Phe | Arg | Ala | Ala | Val |
| 1185 | Cys | Thr | Arg | Gly | Val | Ala | Lys | Ala | Val | Asp | Phe | Ile | Pro | Val | Glu | Asn |
| 1201 | Leu | Glu | Thr | Thr | Met | Arg | Ser | Pro | Val | Phe | Trp | Asp | Asn | Ser | Ser | Pro |
| 1217 | Pro | Val | Val | Pro | Gln | Ser | Phe | Gln | Val | Ala | His | Leu | His | Ala | Pro | Thr |
| 1233 | Gly | Ser | Gly | Lys | Ser | Thr | Lys | Val | Pro | Ala | Ala | Tyr | Ala | Ala | Gln | Gly |
| 1249 | Tyr | Lys | Val | Leu | Val | Leu | Asn | Pro | Ser | Val | Ala | Ala | Thr | Leu | Gly | Phe |
| 1265 | Gly | Ala | Tyr | Met | Ser | Lys | Ala | His | Gly | Ile | Asp | Pro | Asn | Ile | Arg | Thr |
| 1281 | Gly | Val | Arg | Thr | Ile | Thr | Thr | Gly | Ser | Pro | Ile | Thr | Tyr | Ser | Thr | Tyr |
| 1297 | Gly | Lys | Phe | Leu | Ala | Asp | Gly | Gly | Cys | Ser | Gly | Gly | Ala | Tyr | Asp | Ile |
| 1313 | Ile | Ile | Cys | Asp | Glu | Cys | His | Ser | Thr | Asp | Ala | Thr | Ser | Ile | Leu | Gly |
| 1329 | Ile | Gly | Thr | Val | Leu | Asp | Gln | Ala | Glu | Thr | Ala | Gly | Ala | Arg | Leu | Val |
| 1345 | Val | Leu | Ala | Thr | Ala | Thr | Pro | Pro | Gly | Ser | Val | Thr | Val | Pro | His | Pro |
| 1361 | Asn | Ile | Glu | Glu | Val | Ala | Leu | Ser | Thr | Thr | Gly | Glu | Ile | Pro | Phe | Tyr |
| 1377 | Gly | Lys | Ala | Ile | Pro | Leu | Glu | Val | Ile | Lys | Gly | Gly | Arg | His | Leu | Ile |
| 1393 | Phe | Cys | His | Ser | Lys | Lys | Lys | Cys | Asp | Glu | Leu | Ala | Ala | Lys | Leu | Val |
| 1409 | Ala | Leu | Gly | Ile | Asn | Ala | Val | Ala | Tyr | Tyr | Arg | Gly | Leu | Asp | Val | Ser |
| 1425 | Val | Ile | Pro | Thr | Ser | Gly | Asp | Val | Val | Val | Val | Ala | Thr | Asp | Ala | Leu |

# FIG.1C

|      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1441 | Met | Thr | Gly | Tyr | Thr | Gly | Asp | Phe | Asp | Ser | Val | Ile | Asp | Cys | Asn | Thr |
| 1457 | Cys | Val | Thr | Gln | Thr | Val | Asp | Phe | Ser | Leu | Asp | Pro | Thr | Phe | Thr | Ile |
| 1473 | Glu | Thr | Ile | Thr | Leu | Pro | Gln | Asp | Ala | Val | Ser | Arg | Thr | Gln | Arg | Arg |
| 1489 | Gly | Arg | Thr | Gly | Arg | Gly | Lys | Pro | Gly | Ile | Tyr | Arg | Phe | Val | Ala | Pro |
| 1505 | Gly | Glu | Arg | Pro | Ser | Gly | Met | Phe | Asp | Ser | Ser | Val | Leu | Cys | Glu | Cys |
| 1521 | Tyr | Asp | Ala | Gly | Cys | Ala | Trp | Tyr | Glu | Leu | Thr | Pro | Ala | Glu | Thr | Thr |
| 1537 | Val | Arg | Leu | Arg | Ala | Tyr | Met | Asn | Thr | Pro | Gly | Leu | Pro | Val | Cys | Gln |
| 1553 | Asp | His | Leu | Glu | Phe | Trp | Glu | Gly | Val | Phe | Thr | Gly | Leu | Thr | His | Ile |
| 1569 | Asp | Ala | His | Phe | Leu | Ser | Gln | Thr | Lys | Gly | Ser | Gly | Glu | Asn | Leu | Pro |
| 1585 | Tyr | Leu | Val | Ala | Tyr | Gln | Ala | Thr | Val | Cys | Ala | Arg | Ala | Gln | Ala | Pro |
| 1601 | Pro | Pro | Ser | Trp | Asp | Gln | Met | Trp | Lys | Cys | Leu | Ile | Arg | Leu | Lys | Pro |
| 1617 | Thr | Leu | His | Gly | Pro | Thr | Pro | Leu | Leu | Tyr | Arg | Leu | Gly | Ala | Val | Gln |
| 1633 | Asn | Glu | Ile | Thr | Leu | Thr | His | Pro | Val | Thr | Lys | Tyr | Ile | Met | Thr | Cys |
| 1649 | Met | Ser | Ala | Asp | Leu | Glu | Val | Val | Thr | Ser | Thr | Trp | Val | Leu | Val | Gly |
| 1665 | Gly | Val | Leu | Ala | Ala | Leu | Ala | Ala | Tyr | Cys | Leu | Ser | Thr | Gly | Cys | Val |
| 1681 | Val | Ile | Val | Gly | Arg | Val | Val | Leu | Ser | Gly | Lys | Pro | Ala | Ile | Ile | Pro |
| 1697 | Asp | Arg | Glu | Val | Leu | Tyr | Arg | Glu | Phe | Asp | Glu | Met | Glu | Glu | Cys | Ser |
| 1713 | Gln | His | Leu | Pro | Tyr | Ile | Glu | Gln | Gly | Met | Met | Leu | Ala | Glu | Gln | Phe |
| 1729 | Lys | Gln | Lys | Ala | Leu | Gly | Leu | Leu | Gln | Thr | Ala | Ser | Arg | Gln | Ala | Glu |
| 1745 | Val | Ile | Ala | Pro | Ala | Val | Gln | Thr | Asn | Trp | Gln | Lys | Leu | Glu | Thr | Phe |
| 1761 | Trp | Ala | Lys | His | Met | Trp | Asn | Phe | Ile | Ser | Gly | Ile | Gln | Tyr | Leu | Ala |
| 1777 | Gly | Leu | Ser | Thr | Leu | Pro | Gly | Asn | Pro | Ala | Ile | Ala | Ser | Leu | Met | Ala |
| 1793 | Phe | Thr | Ala | Ala | Val | Thr | Ser | Pro | Leu | Thr | Thr | Ser | Gln | Thr | Leu | Leu |
| 1809 | Phe | Asn | Ile | Leu | Gly | Gly | Trp | Val | Ala | Ala | Gln | Leu | Ala | Ala | Pro | Gly |
| 1825 | Ala | Ala | Thr | Ala | Phe | Val | Gly | Ala | Gly | Leu | Ala | Gly | Ala | Ala | Ile | Gly |
| 1841 | Ser | Val | Gly | Leu | Gly | Lys | Val | Leu | Ile | Asp | Ile | Leu | Ala | Gly | Tyr | Gly |
| 1857 | Ala | Gly | Val | Ala | Gly | Ala | Leu | Val | Ala | Phe | Lys | Ile | Met | Ser | Gly | Glu |
| 1873 | Val | Pro | Ser | Thr | Glu | Asp | Leu | Val | Asn | Leu | Leu | Pro | Ala | Ile | Leu | Ser |
| 1889 | Pro | Gly | Ala | Leu | Val | Val | Gly | Val | Val | Cys | Ala | Ala | Ile | Leu | Arg | Arg |
| 1905 | His | Val | Gly | Pro | Gly | Glu | Gly | Ala | Val | Gln | Trp | Met | Asn | Arg | Leu | Ile |
| 1921 | Ala | Phe | Ala | Ser | Arg | Gly | Asn | His | Val | Ser | Pro | Thr | His | Tyr | Val | Pro |
| 1937 | Glu | Ser | Asp | Ala | Ala | Ala | Arg | Val | Thr | Ala | Ile | Leu | Ser | Ser | Leu | Thr |
| 1953 | Val | Thr | Gln | Leu | Leu | Arg | Arg | Leu | His | Gln | Trp | Ile | Ser | Ser | Glu | Cys |
| 1969 | Thr | Thr | Pro | Cys | Ser | Gly | Ser | Trp | Leu | Arg | Asp | Ile | Trp | Asp | Trp | Ile |
| 1985 | Cys | Glu | Val | Leu | Ser | Asp | Phe | Lys | Thr | Trp | Leu | Lys | Ala | Lys | Leu | Met |
| 2001 | Pro | Gln | Leu | Pro | Gly | Ile | Pro | Phe | Val | Ser | Cys | Gln | Arg | Gly | Tyr | Lys |
| 2017 | Gly | Val | Trp | Arg | Val | Asp | Gly | Ile | Met | His | Thr | Arg | Cys | His | Cys | Gly |
| 2033 | Ala | Glu | Ile | Thr | Gly | His | Val | Lys | Asn | Gly | Thr | Met | Arg | Ile | Val | Gly |
| 2049 | Pro | Arg | Thr | Cys | Arg | Asn | Met | Trp | Ser | Gly | Thr | Phe | Pro | Ile | Asn | Ala |
| 2065 | Tyr | Thr | Thr | Gly | Pro | Cys | Thr | Arg | Leu | Pro | Ala | Pro | Asn | Tyr | Thr | Phe |
| 2081 | Ala | Leu | Trp | Arg | Val | Ser | Ala | Glu | Glu | Tyr | Val | Glu | Ile | Arg | Gln | Val |
| 2097 | Gly | Asp | Phe | His | Tyr | Val | Thr | Gly | Met | Thr | Thr | Asp | Asn | Leu | Lys | Cys |
| 2113 | Pro | Cys | Gln | Val | Pro | Ser | Pro | Glu | Phe | Phe | Thr | Glu | Leu | Asp | Gly | Val |
| 2129 | Arg | Leu | His | Arg | Phe | Ala | Pro | Pro | Cys | Lys | Pro | Leu | Leu | Arg | Glu | Glu |
| 2145 | Val | Ser | Phe | Arg | Val | Gly | Leu | His | Glu | Tyr | Pro | Val | Gly | Ser | Gln | Leu |

# FIG.1D

2161 Pro Cys Glu Pro Glu Pro Asp Val Ala Val Leu Thr Ser Met Leu Thr  
 2177 Asp Pro Ser His Ile Thr Ala Glu Ala Ala Gly Arg Arg Leu Ala Arg  
 2193 Gly Ser Pro Pro Ser Val Ala Ser Ser Ser Ala Ser Gln Leu Ser Ala  
 2209 Pro Ser Leu Lys Ala Thr Cys Thr Ala Asn His Asp Ser Pro Asp Ala  
 2225 Glu Leu Ile Glu Ala Asn Leu Leu Trp Arg Gln Glu Met Gly Gly Asn  
 2241 Ile Thr Arg Val Glu Ser Glu Asn Lys Val Val Ile Leu Asp Ser Phe  
 2257 Asp Pro Leu Val Ala Glu Glu Asp Glu Arg Glu Ile Ser Val Pro Ala  
 2273 Glu Ile Leu Arg Lys Ser Arg Arg Phe Ala Gln Ala Leu Pro Val Trp  
 2289 Ala Arg Pro Asp Tyr Asn Pro Pro Leu Val Glu Thr Trp Lys Lys Pro  
 2305 Asp Tyr Glu Pro Pro Val Val His Gly Cys Pro Leu Pro Pro Pro Lys  
 2321 Ser Pro Pro Val Pro Pro Pro Arg Lys Lys Arg Thr Val Val Leu Thr  
 2337 Glu Ser Thr Leu Ser Thr Ala Leu Ala Glu Leu Ala Thr Arg Ser Phe  
 2353 Gly Ser Ser Ser Thr Ser Gly Ile Thr Gly Asp Asn Thr Thr Thr Ser  
 2369 Ser Glu Pro Ala Pro Ser Gly Cys Pro Pro Asp Ser Asp Ala Glu Ser  
 2385 Tyr Ser Ser Met Pro Pro Leu Glu Gly Glu Pro Gly Asp Pro Asp Leu  
 2401 Ser Asp Gly Ser Trp Ser Thr Val Ser Ser Glu Ala Asn Ala Glu Asp  
 2417 Val Val Cys Cys Ser Met Ser Tyr Ser Thr Thr Gly Ala Cys Val Thr  
 2433 Pro Cys Ala Ala Glu Glu Gln Lys Leu Pro Ile Asn Ala Leu Ser Asn  
 2449 Ser Leu Leu Arg His His Asn Leu Val Tyr Ser Thr Thr Ser Arg Ser  
 2465 Ala Cys Gln Arg Gln Lys Lys Val Thr Phe Asp Arg Leu Gln Val Leu  
 2481 Asp Ser His Tyr Gln Asp Val Leu Lys Glu Val Lys Ala Ala Ala Ser  
 2497 Lys Val Lys Ala Asn Leu Leu Ser Val Glu Glu Ala Cys Ser Leu Thr  
 2513 Pro Pro His Ser Ala Lys Ser Lys Phe Gly Tyr Gly Ala Lys Asp Val  
 2529 Arg Cys His Ala Arg Lys Ala Val Thr His Ile Asn Ser Val Trp Lys  
 2545 Asp Leu Leu Glu Asp Asn Val Thr Pro Ile Asp Thr Thr Ile Met Ala  
 2561 Lys Asn Glu Val Phe Cys Val Gln Pro Glu Lys Gly Gly Arg Lys Pro  
 2577 Ala Arg Leu Ile Val Phe Pro Asp Leu Gly Val Arg Val Cys Glu Lys  
 2593 Met Ala Leu Tyr Asp Val Val Thr Lys Leu Pro Leu Ala Val Met Gly  
 2609 Ser Ser Tyr Gly Phe Gln Tyr Ser Pro Gly Gln Arg Val Glu Phe Leu  
 2625 Val Gln Ala Trp Lys Ser Lys Lys Thr Pro Met Gly Phe Ser Tyr Asp  
 2641 Thr Arg Cys Phe Asp Ser Thr Val Thr Glu Ser Asp Ile Arg Thr Glu  
 2657 Glu Ala Ile Tyr Gln Cys Cys Asp Leu Asp Pro Gln Ala Arg Val Ala  
 2673 Ile Lys Ser Leu Thr Glu Arg Leu Tyr Val Gly Gly Pro Leu Thr Asn  
 2689 Ser Arg Gly Glu Asn Cys Gly Tyr Arg Arg Cys Arg Ala Ser Gly Val  
 2705 Leu Thr Thr Ser Cys Gly Asn Thr Leu Thr Cys Tyr Ile Lys Ala Arg  
 2721 Ala Ala Cys Arg Ala Ala Gly Leu Gln Asp Cys Thr Met Leu Val Cys  
 2737 Gly Asp Asp Leu Val Val Ile Cys Glu Ser Ala Gly Val Gln Glu Asp  
 2753 Ala Ala Ser Leu Arg Ala Phe Thr Glu Ala Met Thr Arg Tyr Ser Ala  
 2769 Pro Pro Gly Asp Pro Pro Gln Pro Glu Tyr Asp Leu Glu Leu Ile Thr  
 2785 Ser Cys Ser Ser Asn Val Ser Val Ala His Asp Gly Ala Gly Lys Arg  
 2801 Val Tyr Tyr Leu Thr Arg Asp Pro Thr Thr Pro Leu Ala Arg Ala Ala  
 2817 Trp Glu Thr Ala Arg His Thr Pro Val Asn Ser Trp Leu Gly Asn Ile  
 2833 Ile Met Phe Ala Pro Thr Leu Trp Ala Arg Met Ile Leu Met Thr His  
 2849 Phe Phe Ser Val Leu Ile Ala Arg Asp Gln Leu Glu Gln Ala Leu Asp  
 2865 Cys Glu Ile Tyr Gly Ala Cys Tyr Ser Ile Glu Pro Leu Asp Leu Pro  
 2881 Pro Ile Ile Gln Arg Leu Gly Cys Pro Glu Arg Leu Ala Ser

Antibody binding to individual peptides and various mixtures in an ELISA assay.

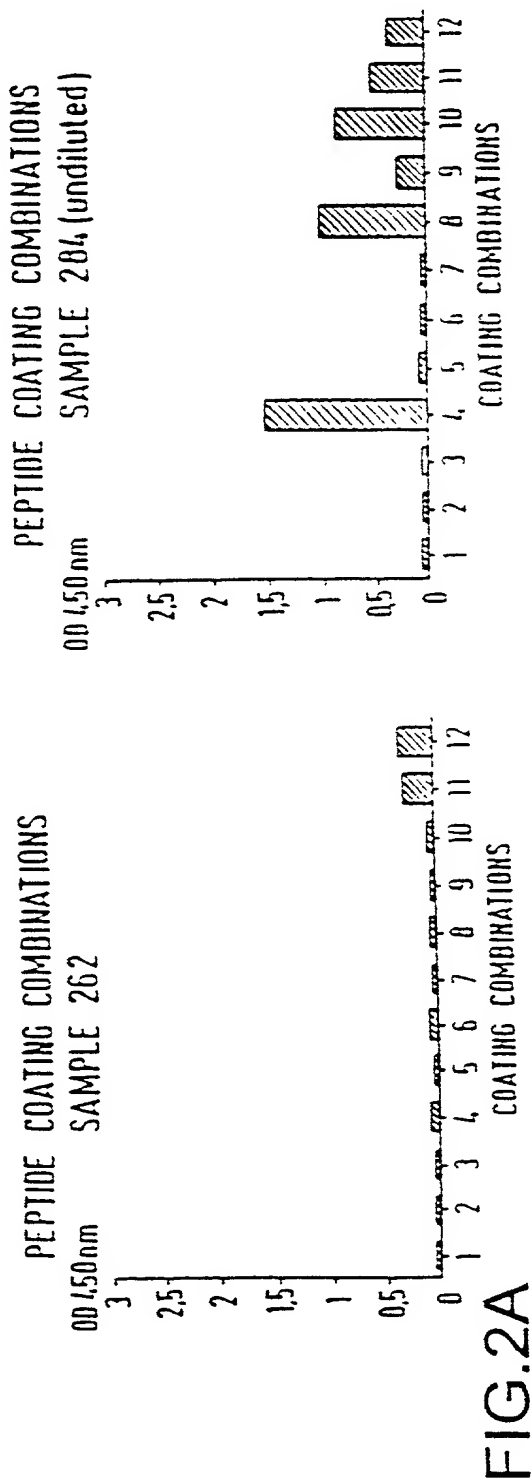


FIG.2B

PEPTIDE COATING COMBINATIONS  
SAMPLE 287

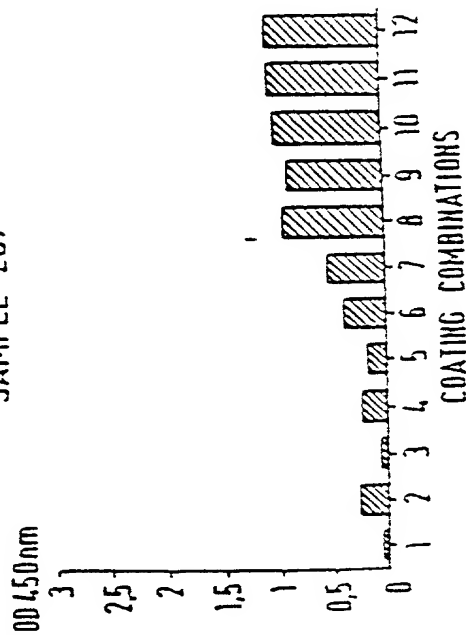


FIG.2C

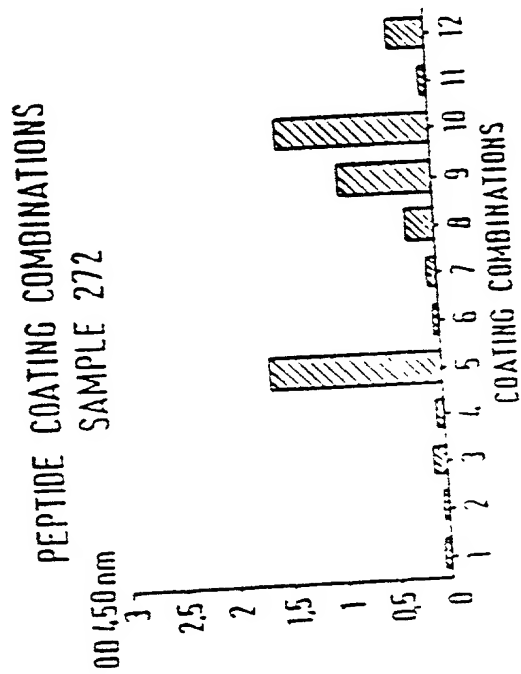


FIG.2E

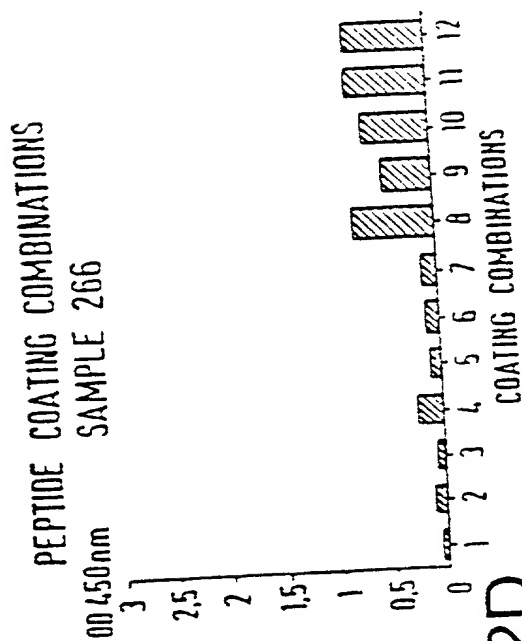


FIG.2D

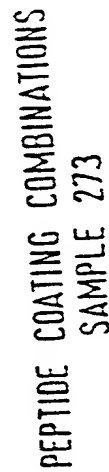
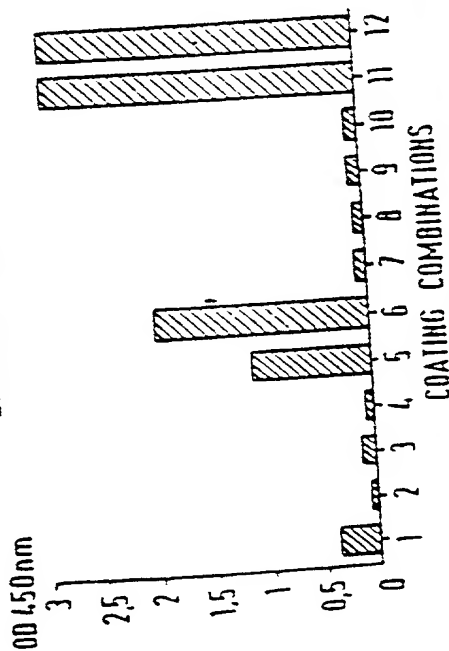


FIG.2F



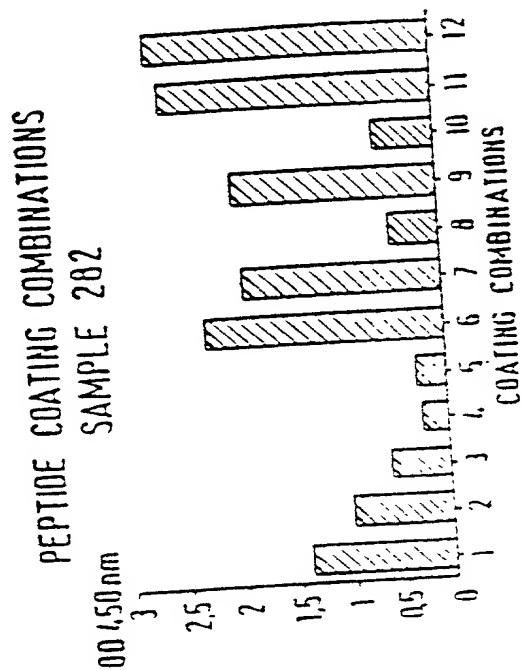


FIG.2H

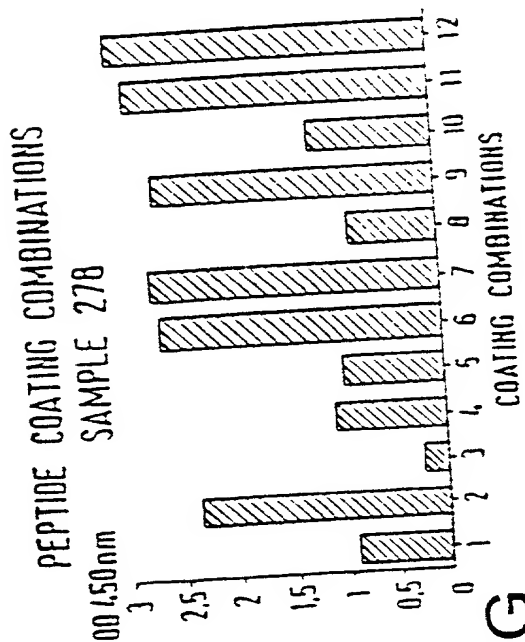


FIG.2G

PEPTIDE COATING COMBINATIONS  
SAMPLE 8247

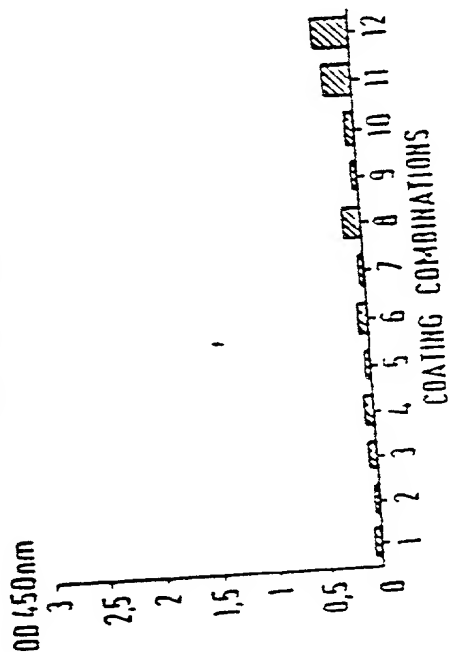


FIG.2I

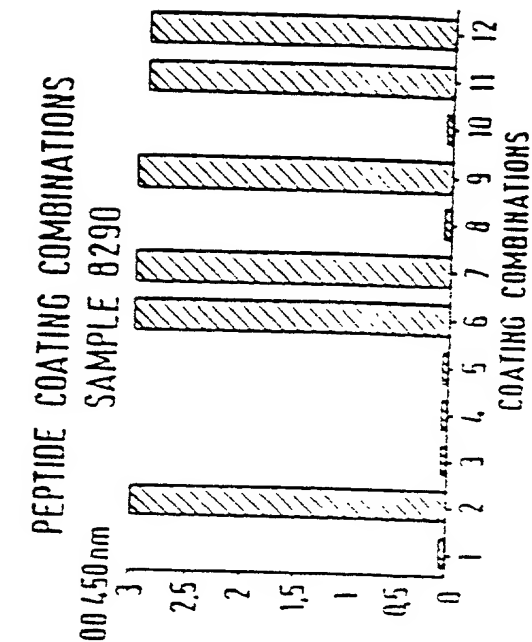


FIG.2K

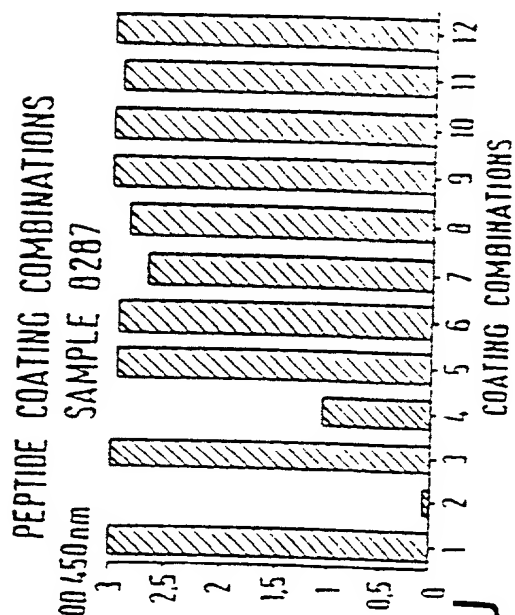


FIG.2J

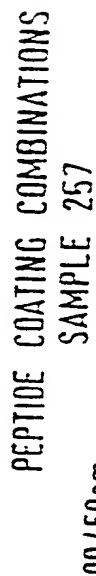


FIG.2L

